PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 3179WO0P	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/009486	International filing date (day/month/year) 29 June 2004 (29.06.2004)	Priority date (day/month/year) 30 June 2003 (30.06.2003)	
International Patent Classification (8tl See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237		
Applicant TAKEDA PHARMACEUTICAL.CC	MPANY LIMITED		

1.	This international preliminary re International Searching Authori	eport on patentability (Chapter I) is issued by the International Bureau on behalf of the ty under Rule 44 bis.1(a).
2.	This REPORT consists of a total	of 8 sheets, including this cover sheet.
	In the attached sheets, any refer to the international preliminary	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.
3.	This report contains indications	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Вох №. Ш	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application
4.	The International Bureau will conot, except where the applicant r date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority

Date of issuance of this report 01 May 2006 (01.05.2006)

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

INTER		NAL SEARCHI	NG AUTHOR	ITY		"ANC.
Го:						PCT PCT
					WI INTERNAT	RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
				,		(PCT Rule 43bis.1)
]	Date of mailing (day/month/year)	·
317	79 W O		ce		FOR FURTHER	ACTION See paragraph 2 below
		pplication No. 2004/009	486	International filing date (day/month/year)	Priority date (day/month/year) 30.06.2003
Interna	tional Pa	atent Classification	n (IPC) or both	l national classification an	d IPC	
			•			
Applied TAK		PHARMAC	EUTICAI	COMPANY LI	MITED	
1.	This c	ppinion contains in	ndications relat	ing to the following items	:	
•	\boxtimes	Box No. I	Basis of the	opinion		
		Box No. 11	Priority			
	\boxtimes	Box No. III	Non-establis	hment of opinion with reg	ard to novelty, inventi	ve step and industrial applicability
		Box No. IV		y of invention		
		Box No. V	Reasoned sta applicability	atement under Rule 43 <i>bis.</i> citations and explanation	I(a)(i) with regard to n is supporting such state	ovelty, inventive step or industrial
	\boxtimes	Box No. VI	Certain docu			
		Box No. VII .	Certain defe	cts in the international app	lication	
	\boxtimes	Box No. VIII	Certain obse	rvations on the internation	al application	ļ
2.		THER ACTION				
	than th	his one to be the	y Examining /	Suthority ("IPEA") except	that this does not ann	be considered to be a written opinion of the ly where the applicant chooses an Authority other au under Rule $66.1bis(b)$ that written opinions of
	wille	n repry together.	where appropr	considered to be a writter riate, with amendments, l of 22 months from the pric	before the expiration	the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form spires later.
		rther options, see			•	
3.	For fu	rther details, see n	otes to Form P	CT/1SA/220.		
Name ai	nd maili	ng address of the	ISA/JP		Authorized officer	
Facsimi	le No.				Telephone No.	

International application No.

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Box	No. I	Basis of this opinion
1.	With re filed, u	gard to the language. this opinion has been established on the basis of the international application in the language in which it was aless otherwise indicated under this item.
	Т	his opinion has been established on the basis of a translation from the original language into the following language
	R	which is the language of a translation furnished for the purposes of international search (under ule 12.3 and 23.1(b)).
2.	With re	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on this opinion has been established on the basis of:
	a. ty	pe of material
		a sequence listing
		table(s) related to the sequence listing
	b. fo	ermat of material
		in written format
		in computer readable form
	c. tii	me of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or mished, the required statements that the information in the subsequent or additional copies is identical to that in the application as ed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addition	nal comments:
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Box No.	III Non-establishment of opinion	on with regard to novelty, inventive step and industrial applicability	
The ques	ations whether the claimed invention a e have not been examined in respect of:	ppears to be novel, to involve an inventive step (to be non obvious), or to be indu	strially
	the entire international application		
	claims Nos. 9-11, 16	<u>.</u>	
becau	ise:		_
	the said international application, or the relate to the following subject matter to	the said claims Nos. 9-11, 16 which does not require an international preliminary examination (specify):	
		es a method for treatment of the human body by	
	therapy, which does not r	equire an international preliminary examination in cicle 34 (4) (a) (i) and PCT Rule 67.1(iv).	
	•		
	the description, claims or drawings (in are so unclear that no meaningful opin	idicate particular elements below) or said claims Nos. ion could be formed (specify):	
		•	
	the claims, or said claims Nos.	are so inadequately suppo	retad
	by the description that no meaningful of	opinion could be formed.	n teti
	no international search report has been	established for said claims Nos. 9-11, 16	
	the nucleotide and/or amino acid seque Instructions in that:	ence listing does not comply with the standard provided for in Annex C of the Adminis	trative
	the written form	has not been furnished	
		does not comply with the standard	
	the computer readable form		
	the computer reathful form	has not been furnished	
		does not comply with the standard	
	the tables related to the nucleotide and technical requirements provided for in	Vor amino acid sequence listing, if in computer readable form only, do not comply wi Annex C-bis of the Administrative Instructions.	th the
	See Supplemental Box for further detail	is.	

International application No.

		2.10km/16km/SEARCHING ACTIONITY	PCT/JP2004/009486
Bo	x No. l	V Lack of unity of invention	
1.	\boxtimes	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant	has:
		paid additional fees	
		paid additional fees under protest	
		not paid additional fees	
2.		This Authority found that the requirement of unity of invention is not complied wit additional fees.	h and chose not to invite the applicant to pay
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules	: 13.1, 13.2 and 13.3 is
		complied with	
	\boxtimes	not complied with for the following reasons:	
	Conc	While the inventions in claims 1, 4-6, and 12 is a prevagents for dysuria that do not inhibit urine collection function compounds that possess acetylcholine esterase inhibition as substantially possess butylcholinesterase inhibition activity in claims 2, 7, and 13 is a preventive/therapeutic agent for therapeutic agents for dysuria containing these compound claims 3, 14, 15, and 17 is a preventive/therapeutic agent in not concomitant with dry mouth containing these compour of claim 8 is a screening method for preventive/therapeutic dysuria that do not inhibit urine collection function characteristic measurement/comparison with experimental acetylcholine activity and butylcholinesterase inhibition activity. However, dysuria differs greatly from hyperactive black induced by the administration of theraputic agents for dysuriand therapeutic drugs used for therapy, and screening methorapeutic drugs used for therapy, and screening methorapeutic drugs used for therapy, and screening methorapeutic natural activity approduction of preventive /therapeutic substances for dysuria that do not infunction are not acknowledged as methods particularly approduction of preventive /therapeutic substances for dysururine collection function; accordingly, the inventions in claims the inventions in claims 8 do not have a common matter that a special technical feature in the sense of the second senter and no technical relevancy is found in the sense of PCT Reinventions differing from each other. Such being the case, it does not appear that there is a technical feature; therefore these inventions are not so linked as to from a single general inventive concept.	tion and comprising activity and that do not by, while, the inventions of dry mouth induced by so, the inventions in for hyperactive bladder ands, and the invention consubstances for exterized by esterase inhibition and dry mouth uria in cause of disease shods for an inhibit urine collection propriate for the in that do not inhibit aims 1, 4-6, and 12, the 3, 14, 15, and 17, and to could be construed as ance of PCT Rule 13.2 and 13 among these chical relationship the or corresponding to considered as being
4.	Cons	equently, this opinion has been established in respect of the following parts of the interns	ntional application:
		all parts	
	\square	the parts relating to claims Nos. 1, 4-6, 12	

			CHING AUTHORITY	PCT/JP2004/009486	6
Box No. V	Reasoned statemer citations and expla	nt under R anations su	tule 43bis.1(a)(i) with regard to novelty, apporting such statement	, inventive step or industrial applicability;	<u>_</u>
1. Stateme					
Nov	velty (N)	Claims		,	ŒS
		Claims	1, 4-6, 12		10 10
Inve	entive step (IS)	Claims			
		Claims	1, 4-6, 12		TES NO
Indi	ustrial applicability (IA)	Claims			
		Claims	1, 4-6, 12		ES VO
2. Citation	ns and explanations:				
	ments Cited in thument 1: JP 2000-		A (Takeda Chemical Indus	tries, Co., Ltd.) 20 June	
novel effect speci	Ity or involve an i Document 1 de t towards acetylch fication as a comp	inventive escribes holineste pound h	ped in claims 1, 4-6, and 12 of the step based on document 1 a noncarbamate amine comperase such as compound A staving acetylcholinesterase itesterase inhibition activity extends.	cited in the ISR. spound having inhibition specifically disclosed in the inhibition activity and not	

International application No.

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Application No.	Publication date	Filing date	Priority date (valid clai
Patent No. WO 03/57254 A1	(day/month/year) 17.07.2003	(day/month/year)	(day/month/year)
[EX]	17.07.2003	26.12.2002	28.12.200
[]			
	•		
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	•		•
	·		
Jon-written disclosures (Rule 43bis.) and 7	(0.9)		
don-written disclosures (Rule 43 <i>bis.</i> 1 and 7 Kind of non-written disclosure	(0.9) Date of non-written di (day/month/yea	sclosure referring	e of written disclosure to non-written disclosure (day/month/war)
	Date of non-written di	sclosure referring	e of written disclosure to non-written disclosure (day/month/year)
	Date of non-written di	sclosure referring	to non-written disclosure
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Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1, 4-6, and 12 relate to a preventive/therapeutic agent for dysuria that does not inhibit urine collection function and that has an active ingredient defined by desired properties of "having acetylcholinesterase inhibition activity but substantially not having butylcholinesterase inhibition activity." Claims 1, 4-6, and 12 include any compound having such properties, only a very small portion of the claimed compounds are acknowledged to be supported in the specifications in the sense of PCT Article 6 and disclosed in the sense of PCT Article 5.

In addition, for "compounds having acetylcholinesterase inhibition activity but substantially not having butylcholinesterase inhibition activity," the range of compounds having such properties cannot be specified, even taking into consideration common general technical knowledge at the time of application; therefore claims 1, 4-6, and 12 do not fulfil the requirement of clarity in PCT Article 6.